

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A system comprising:
a source of gas, the gas including NO_x; and
material for filtering the gas, the filter material including a catalyst for converting ~~the NO_x~~ NO to NO₂, the catalyst consisting of manganese dioxide and copper oxide, and an alkali for adsorbing the NO₂ ~~without desorption, wherein the alkali is coated on particles of the catalyst.~~
- 2-5 (Canceled)
6. (Original) The system of claim 1, wherein the filter material further includes chromium oxide.
7. (Original) The system of claim 1, further comprising air conditioning apparatus downstream the filter material.
- 8-9. (Canceled)
10. (Currently Amended) The system of ~~claim 8~~ claim 15, further comprising a CATOX, wherein the catalyst and first support structure are integrated with the CATOX.

11. (Currently Amended) The system of ~~claim 8~~ claim 15, further comprising air conditioning apparatus midstream between the first and second support structures.

12. (Canceled)

13. (Currently Amended) The system of claim 1, wherein ~~the catalyst includes manganese oxide and copper oxide, and wherein the alkali includes potassium.~~

14. (Canceled)

5 15. (Currently Amended) An NO_x filter comprising:
a catalyst for oxidizing NO to NO₂;
a first support structure for the catalyst;
an alkali for adsorbing the NO₂; ~~and~~
a second support structure for the alkali;
the first support structure spaced apart from the second support structure and allowing the catalyst to be ~~used in a different environment~~
operated under conditions different than the alkali; and
wherein the catalyst and the alkali are independently optimizable.

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16. (Original) The filter of claim 15, wherein the catalyst includes manganese dioxide and copper oxide, and wherein the alkali material is potassium carbonate.

17. (Previously Presented) The filter of claim 15, wherein the catalyst includes at least one of noble metal, a transition metal, and iron.

18. (Previously Presented) A method of using the filter of claim 15, wherein the catalyst and alkali are used at different temperatures or pressures.

19. (Currently Amended) Apparatus comprising
a CATOX; and
a split layer PTF including a catalyst integrated with the CATOX
and an alkali downstream from the catalyst, the catalyst oxidizing NO to NO₂,
5 the alkali adsorbing the NO₂ without desorption.

20. (Previously Presented) An environmental control system
comprising:
a CATOX;
an air conditioning system (ACS) downstream from the CATOX;
5 and
a post treatment filter downstream from the CATOX, the filter
including a catalyst and alkali.

21. (Original) The system of claim 20, wherein the catalyst is
midstream between the CATOX and ACS, and the alkali is downstream the
ACS.

22. (Withdrawn) A method of reducing harmful agents in air, the
method comprising:
passing the stream of air through a CATOX to oxidize organic
agents, TICs and TIMs to carbon dioxide and water;
passing the stream through a catalyst, the catalyst including
manganese dioxide; and
passing the stream through an alkali.

